

Date of issue: 01/03/2018

Safety Data Sheet

 Identification of the substance/mixture and of the company/undertaking Product identifier: Product name: Sodium hydrogen carbonate Product code(SDS NO): 7166E-1
 Details of the supplier of the safety data sheet Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD. Address: 3-1, Honmachibashi, Chuo-ku,Osaka 540-0029,JAPAN Division: Safety Management Dept. of Chemicals Telephone number: +81-6-6946-8061 FAX: +81-6-6946-1607 e-mail address: kagakuhinanzenkanri@kishida.co.jp

 Hazards identification GHS classification and label elements of the product Classification of the substance or mixture (Note) GHS classification without description: Not applicable/Out of classification/Not classifiable

3. Composition/information on ingredients

Mixture/Substance selection:
Substance
Ingredient name:Sodium hydrogen carbonate
Content(%):99(min)
Chemical formula:NaHCO3
Chemicals No, Japan:1–164
CAS No.:144–55–8
MW:84.01
ECNO:205–633–8
Note : The figures shown above are not the specifications of the product.

4. First-aid measures

Descriptions of first-aid measures IF INHALED Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN (or hair) Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF SWALLOWED Rinse mouth.

Call a POISON CENTER or doctor/physician if you feel unwell.



Sodium hydrogen carbonate,KISHIDA CHEMICAL CO., LTD.,7166E-1,01/03/2018

5. Fire-fighting	measures	
Extinguishing media		
Suitable e	Suitable extinguishing media Use appropriate extinguishing media suitable for surrounding facilities. Specific hazards arising from the substance or mixture Containers may explode when heated. Fire may produce irritating, corrosive and/or toxic gases.	
Use		
Specific haz		
Con		
Fire		
Advice for firefighters		
Specific f	Specific fire-fighting measures Evacuate non-essential personnel to safe area. Special protective equipment and precautions for fire-fighters Wear fire/flame resistant/retardant clothing.	
Eva		
Special pr		
Wea		
Wea	r protective gloves/protective clothing/eye protection/face protection.	
Fire	fighters should wear self-contained breathing apparatus with full face peace operated	
posi	tive pressure mode.	
Personnel pr Ven Wea Methods and Swe	elease measures recautions, protective equipment and emergency procedures tilate area after material pick up is complete. r proper protective equipment. I materials for containment and cleaning up ep up, place in a bag and hold for waste disposal.	
	neasures for secondary accident ect spillage.	
7. Handling and	storage for safe handling	
	e measures	
	ctive measures against fire and explosion)	

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Exhaust/ventilator

Exhaust/ventilator should be available.

Safety treatments

Avoid contact with skin.

Avoid contact with eyes.

Safety Measures/Incompatibility

Wear protective gloves, protective clothing or face protection.

When using do not eat, drink or smoke.

Conditions for safe storage, including any incompatibilities

Recommendation for storage

Keep container tightly closed.

Store in a cool, dry place. Do not store in direct sunlight.

8. Exposure controls/personal protection

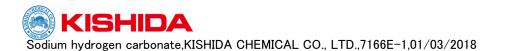
Exposure controls

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Eye wash station should be available.

Washing facilities should be available.



Individual protection measures Respiratory protection Wear respiratory protection. Hand protection Wear protective gloves. Eye protection Wear eye/face protection. 9. Physical and Chemical Properties Information on basic physical and chemical properties Physical properties Appearance: Crystals or crystalline powder Color: White Odor data N.A. Phase change temperature Initial Boiling Point/Boiling point data N.A. Melting point/Freezing point: (decomposes) 50°C Decomposition temperature data N.A. Flash point data N.A. Auto-ignition temperature data N.A. Explosive properties data N.A. Vapor pressure data N.A. Relative Vapor Density (Air=1) data N.A. Specific gravity/Density: 2.1g/cm3 Solubility Solubility in water: 8.7 g/100 ml (20°C) n-Octanol /water partition coefficient data N.A.

10. Stability and Reactivity

Chemical stability
Stable under normal storage/handling conditions.

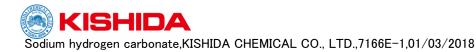
Possibility of hazardous reactions

The solution in water is a weak base. Reacts with acids. (ICSC 1044)
Conditions to avoid
Contact with incompatible materials.
Contact with fire source.

Incompatible materials

Acids
Hazardous decomposition products
Carbon oxides

11. Toxicological Information
Information on toxicological effects
Acute toxicity
Acute toxicity (Oral)
[GHS Cat. Japan, base data]
(Sodium hydrogen carbonate)
rat LD50=4220 mg/kg (JPMA 5th ed,)
No Irritant properties data available
No Allergenic and sensitizing effects data available
No Mutagenic effects data available



No Carcinogenic effects data available No Teratogenic effects data available No reproductive toxicity data available No STOT-single/repeated exposure data available No Aspiration hazard data available Additional data May cause lung disorders by massive inhalation of powdered substance. -e.g. fibrosis of lung tissue, cough, sputum, breath shortness, dyspnea, decline of lung function, interstitial lung disease, pneumothorax

12. Ecological Information	
Ecotoxicity	
Aquatic toxicity	
Aquatic acute toxicity component(s) data	
[GHS Cat. Japan, base data]	
(Sodium hydrogen carbonate)	
Crustacea(Ceriodaphnia reticulata) EC50 = 1020 mg/L/48hr (SIDS, 2004)	
Aquatic chronic toxicity component(s) data	
[GHS Cat. Japan, base data]	
(Sodium hydrogen carbonate)	
Crustacea(Daphnia magna)NOEC >576 mg/L/21days(SIDS, 2004)	
Water solubility	
(Sodium hydrogen carbonate)	
8.7 g/100 ml (20 C) (ICSC, 2004)	
No Persistence and degradability data available	
No Bioaccumulative potential data available	
No Mobility in soil data available	
Ozone depleting chemical data not available	

Disposal considerations
 Waste treatment methods
 Dispose of contents/container in accordance with local/national regulation.

14. Transport Information Not applicable to UN NO.

15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture US major regulations TSCA

Sodium hydrogen carbonate

Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.



Sodium hydrogen carbonate, KISHIDA CHEMICAL CO., LTD., 7166E-1,01/03/2018

## 16. Other information

The product is not applicable to GHS classifications.

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 19th edit., 2015 UN Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012) 2016 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2017 TLVs and BEIs. (ACGIH)

http://monographs.iarc.fr/ENG/Classification/index.php

Supplier's data/information

## **General Disclaimer**

This information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. It are advised to make their own tests to determinate the safety and suitability of each such product or combination for their own purposes.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2016).